ABSTRACT

[0019] A corner module for use in a motor vehicle having a bearing pack through which a wheel hub for the motor vehicle is connected with a support member. The bearing pack includes an inner race and an outer race for retaining first and second roller elements such that a wheel attached to the hub may rotate with respect to the support member. The bearing pack is characterized by an exciter ring that is located between the first and second roller elements and the outer race is characterized by an opening that is in radial alignment with the exciter ring. A sensor that is fixed to the support member has a functional length and a sensing area that extends through the radial opening in the outer race and into the bearing pack to a position adjacent the exciter ring such that the functional length and sensing area is protected from exposure to contamination that may be present in the environment. The sensing area is activated by movement of the exciter ring to provide an electronic control unit with a signal relating to the rotation of the wheel and used in the control of an anti-skid brake system.